IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Nai-Kong CHEUNG

U.S. Serial No. : 10/621,027

Confirmation No. : 2089

Filed : July 16, 2003

Examiner : Eric Olson

Art Unit : 1623

For : THERAPY-ENHANCING GLUCAN

Law Offices of Albert Wai-Kit Chan, PLLC

World Plaza, Suite 604 141-07 20th Avenue Whitestone, NY 11357

December 17, 2007

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir/Madam:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, Applicants would like to direct the Examiner's attention to the following references which are listed below and on PTO/SB/08A and PTO/SB/08B (which are attached hereto as **Exhibit A**), and further attached as **Exhibits 1-47**.

Copies of the U.S. Patents listed (Reference 1-3) are on file at the USPTO; therefore, in accordance with 37 C.F.R. 1.98, a copy will not be provided. Applicant's attorney's office may be contacted in the event that the Examiner would like a copy of the reference.

Applicant : Nai-Kong CHEUNG : 639~B~PCT-US Atty. Dkt. No.

: 10/621,027 : 1623 USSN Date of SIDS Art Unit

: July 16, 2003 Filed : December 17, 2007

Examiner : Eric Olson

: 2 Page

1. U.S. Patent No. 7,070,778, July 4, 2006, YVIN et al., "Therapeutical combination against cancer."

- 2. U.S. Patent No. 7,030,101, April 18, 2006, PAVLIAK et "Compositions of .beta.-glucans and antibodies."
- U.S. Patent No. 5,130,127, July 14, 1992, HERLYN, Dorothee, "Human tumor therapy using beta (1-3)glucanlentinian and anti-tumor antibodies."
- 4. U.S. Publication No. US-2006-0020128, January 26, 2006, Nai-Kong CHEUNG, "Therapy-Enhancing Glucan." (EXHIBIT 1)
- 5. U.S. Publication No. US-2006-0188506, August 24, 2006, Nai-Kong CHEUNG, "Therapy-Enhancing Glucan." (EXHIBIT 2)
- U.S. Publication No. US-2007-0059310, March 15, 2007, Steven KAREL, "Therapeutic combination compositions and methods of using same." (EXHIBIT 3)
- 7. U.S. Publication No. US-2006-0165700, July 27, OSTROFF et al., "Cancer therapy using whole glucan particles and antibodies." (EXHIBIT 4)
- 8. U.S. Publication No. US-2005-0118187, June 2, 2005, Baofa YU, "Combinations and methods for treating neoplasms." (EXHIBIT 5)
- 9. U.S. Publication No. US-2007-0134259, June 14, 2007, BUNDLE et al., "Methods and compositions pharmacologically controlled targeted immunotherapy." (EXHIBIT 6)

Atty. Dkt. No. : 639-B-PCT-US Applicant : Nai-Kong CHEUNG

: 10/621,027 USSN Art Unit

: 1623 : December 17, 2007 Art Unit Date of SIDS : July 16, 2003 Filed

Examiner : Eric Olson

: 3 Page

10. U.S. Publication No. US-2007-0020232, January 25, 2007, ROSSIGNOL et al., "Compositions and methods for cancer immunotherapy." (EXHIBIT 7)

- 11. U.S. Publication No. US-2006-0009419, January 12, 2006, Gordon D. ROSS, "Cancer Therapy using beta glucan and antibodies." (EXHIBIT 8)
- 12. U.S. Publication No. US-2005-0208079, September 22, 2005, CASSONE et al., "Glucan-based vaccines." (EXHIBIT 9)
- 13. U.S. Publication No. US-2002-0044919, April 18, Baofa YU, "Combinations and methods for treating neoplasms." (EXHIBIT 10)
- 14. U.S. Publication No. US-2006-0263355, November 23, 2006, QUAN et al., "Treatment of bone disorders." (EXHIBIT 11)
- 15. U.S. Publication No. US-2002-0119928, August 29, 2002, MCANALLEY et al., "Dietery supplement compositions." (EXHIBIT 12)
- 16. International Publication No. WO 2007084661, July 26, 2007, SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, "Therapy-Enhancing Glucan." (EXHIBIT 13)
- 17. International Publication No. WO 2006085895, August 17, 2006, BIOPOLYMER ENGINEERING INC (US) and UNIV LOUISVILLE RES FOUNDATION (US), "Whole Glucan Particles Antibiotics, Vaccines and Viral Combination with Monoclonal Antibodies." (EXHIBIT 14)

Applicant : Nai-Kong CHEUNG Atty, Dkt. No. : 639-B-PCT-US

: 10/621,027 : July 16, 2003 USSN Art Unit : 1623

Date of SIDS : December 17, 2007 Filed

Examiner : Eric Olson

Page : 4

18. International Publication No. WO 2005049044, 2005, LABORATOIRES GOEMAR SA, "Therapeutical combination against cancer." (EXHIBIT 15)

- 19. International Publication No. WO 2004030613, April 15, 2004, UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC., Therapy Using Beta Glucan and Antibodies." "Cancer (EXHIBIT 16)
- 20. International Publication No. WO 02058711, 2002, SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, "Therapy-Enhancing Glucan." (EXHIBIT 17)
- 21. International Publication No. WO 2006119395, November 9, BIOPOLYMER ENGINEERING, "Therapeutic Combination Compositions and Methods of Using Same." (EXHIBIT 18)
- 22. International Publication No. WO 0180807, November 2001, GOEMAR LAB SA, "Medicine Containing Polysaccharide substance for activating Apoptosis." (EXHIBIT 19)
- 23. International Publication No. WO 2005027938, March 31, 2005, GOEMAR LAB SA, "Chemotherapeutic Antineoplastic Treatment." (EXHIBIT 20)
- 24. International Publication No. WO 03004507, January 16, 2003, RESEARTCH CENTER FOR ECO-ENVIRONMENTAL SCIENCES, "A Kind of Oligosaccharides, their Sulfates and Dendrimers, and the Uses of these Compounds." (EXHIBIT 21)
- 25. International Publication No. WO 0168105, September 20, SOCIETA' COOPERATIVA CENTRO RICERCHE POLYTECH A RESPONSABILITA' LIMITATA, "Polysaccharidic esters of N-Derivatives of Glutamic Acid." (EXHIBIT 22)

Applicant : Nai-Kong CHEUNG Atty. Dkt. No. : 639-B-PCT-US

USSN : 10/621,027 Filed : July 16, 2003 Examiner : Eric Olson Art Unit : 1623
Date of SIDS : December 17, 2007

: 5 Page

26. International Publication No. WO 2005027936, March 31, LABORATOIRES GOEMAR ŞA, "Pharmaceutical Compositions and Therapeutic Treatment with Oligo-beta-(1,3) - Glucans Used in Said Treatment." (EXHIBIT 23)

- 27. European Publication No. EP0194851, September 17, 1986, THE WISTAR INSTITUTE, "Human tumor therapy." (EXHIBIT 24)
- 28. ADACHI et al., 1990, "Macrophage Activation in Vitro by Chemically Cross-Linked (1-3)-β-D-Glucans", Chem. Pharm. Bull., 38(4):988-992. (EXHIBIT 25)
- 29. AZUMA, Ichiro, "Development of Immunostimulants in Japan", Immunostimulants: Now and Tomorrow, 41-56. (EXHIBIT 26)
- 30. BLUHM et al., 1977, "The triple helical structure of lentinan, a linear β - $(1\rightarrow 3)$ -D-glucan", Can J Chem, 55:293-299. (EXHIBIT 27)
- 31. BOGWALD et al., 1982, "The Cytoxic Effect of Mouse Macrophages Stimulated in Vitro by a β-1,3-D-Glucan from Yeast Cell Walls", Scandinavian Journal of Immunology, 15:297-304. (EXHIBIT 28)
- 32. CHIHARA et al., 1982, "Current Status and Perspectives of Immunomodulators of Microbial Origin", International Journal of Tissue Reactions, 4:207-225. (EXHIBIT 29)
- 33. MAEDA et al., 1971, "Lentinan, a new immune-accelerator of cell-mediated responses", Nature, 229:634. (EXHIBIT 30)

Applicant : Nai-Kong CHEUNG Atty. Dkt. No. : 639-B-PCT-US

: 1623 : 10/621,027 Art Unit USSN

: 1023 : December 17, 2007 Filed : July 16, 2003 Date of SIDS

Examiner : Eric Olson

Page : 6

34. CHIHARA et al., 1970, "Fractionation and purification of the polysaccharides with Marked Antitumor Activity, Especially Lentinan, from Lentinus edodes (Berk.) Sing. (an Edible Mushroom)", Cancer Res, 30:2776-2781. (EXHIBIT 31)

- 35. CHIHARA et al., 1981, "The antitumor polysaccharide Lentinan: an overview", Manipulation of Host Defence Mechanisms, 1-16. (EXHIBIT 32)
- 36. CHIHARA et al., 1987 "Antitumor and Metastasis-Inhibitory Activities of Lentinan an Immunomodulator: as Overview", Cancer Detect. Prev. Suppl, 1:423-443. (EXHIBIT 33)
- 37. DI LUZIO et al., 1985, "Glucans as Immunomodulators", Advances in Immunopharmacology, Permagon Press, NY, 369-375 (EXHIBIT 34)
- 38. DI LUZIO et al., 1980, "Comparative Evaluation of the Inhibitory Antibacterial Tumor and Activity of Solubilized and Particulate Glucan", Recent Results in Cancer Research, 75:165-172. (EXHIBIT 35)
- 39. DI LUZIO, Nicholas R., 1985, "Update the Activities of Glucans", Immunomodulating Springer Seminars in Immunopathology, 8:387-400.(EXHIBIT 36)
- 40. HAMURO et al., 1971, "The significance of the higher structure of the polysaccharides lentinan and pachymaran with regard to their antitumour activity", Chem. Biol. Interactions, 3:69-71.(EXHIBIT 37)

Applicant : Nai-Kong CHEUNG Atty, Dkt. No. : 639-B-PCT-US

: 10/621,027 : July 16, 2003 r : Eric Olson USSN Art Unit : 1623

Date of SIDS : December 17, 2007 Filed

Examiner

: 7 Page

al., 1978, "Solid phase activation 41. HAMURO et alternative pathway of complement by \$-1,3-glucans and its possible role for tumour regressing activity", Immunology, 34:695-705.(EXHIBIT 38)

- 42. JAMAS et al., 1990, "Spectral Analysis of Glucan Produced Wild-Type and Mutant Saccharomyces cerevisiae", Carbohydrate Polymers, 13:207-219.(EXHIBIT 39)
- 43. PATCHEN et al., 1984, "Soluble Polyglycans Enhance Recovery from Cobalt-60-Induced Hemopoietic Injury", 3:627-Journal of Biological Response Modifiers, 633.(EXHIBIT 40)
- 44. SAITO et al., 1977, "A C-N.M.R.-spectral study of a gel branched $(1\rightarrow 3)-\beta-D-Glucan$, (Lentinan) forming, from Lentinus edodes, and its acid-degraded fractions. Structure, and Dependence of Confirmation on Molecular Weight", Carbohydrate Research, 58:293-305. (EXHIBIT 41)
- 45. SASAKI et al., 1976, "Antitumor Activity of Degraded Products of Lentinan: it's Correlation with Molecular Weight", Gann, 67:191-195. (EXHIBIT 42)
- 46. SELJELID et al., 1977, "Glycan Stimulation of Macrophages Vitro", Experimental Cell Research, 129.(**EXHIBIT 43**)
- 47. SINGH et al., 1974, "Scleroglucan, an antitumor polysaccharide from Sclerotium glucanicum", Carbohydrate Research, 37:245-247.(EXHIBIT 44)

: 639-B-PCT-US Applicant : Nai-Kong CHEUNG Atty. Dkt. No.

: 1623 USSN Art Unit

: 10/621,027 : July 16, 2003 Date of SIDS : December 17, 2007 Filed

: Eric Olson Examiner

: 8 Page

al., 1989, "Immunomodulation by 48. SUZUKI et Administered \$\beta\$-Glucan in Mice", International Journal of Immunopharmacology, 11:761-769.(EXHIBIT 45)

- 49. KIRBY et al., 1981, "Oat-bran intake selectively lowers serum low-density lipoprotein cholesterol concentrations hypercholesterolemic men", American Clinical Nutrition, 34:824-829.(EXHIBIT 46)
- 50. PEAT et al., 1958, "Polysaccharides of Baker's Yeast. Part II. Yeast Glucan", Journal Chem. Soc. Part 1, 3862-3868.(**EXHIBIT 47**)

If a telephone interview would be of assistance in advancing prosecution of this application, Applicants' undersigned attorney invites the Examiner to telephone him at the number provided below. No fee is deemed necessary in connection with the filing of this IDS. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-1891.

Respectfully submitted,

account was Kit Cha

Albert Wai-Kit Chan Registration No. 36,479 Attorney for Applicant(s) Law Offices of Albert Wai-Kit Chan, PLLC World Plaza, Suite 604 141-07 20th Avenue Whitestone, New York 11357 Tel: (718) 799-1000

Fax: (718) 357-8615

e-mail: chank@kitchanlaw.com